

The title of the course	Transportation Systems
Faculty	Faculty of Management and Transport
The level of studies	Bachelor Studies, Engineering Studies
Semester	Winter or summer
The form of classes and number of hours	15 h
Classes conducted for Polish students. Erasmus students can join them	No
Language of instruction	English
The number of ECTS	2 ECTS Lectures and Exercises with the teacher 15 h Student's own work: <ul style="list-style-type: none"> • Homeworks 25 h • Preparation for the presentation 10 h TOTAL: 50 h
Teacher	Jarosław Jabłonka, PhD
The aims of the course (maximum 500 characters)	The main aim of the course is to acquire knowledge about the functioning of transport systems and the ability to describe them using transport indicators. The environmental impact of transport plays a key role. Much attention has been paid to the so-called human factor.
The content of the course: main topics and key ideas	Basic concepts related to transportation systems. Ability to evaluate the transportation system based on the calculated indicators. Choosing the means of transport based on various criteria. Human factors in maintenance of transportation systems. Transport and ecology.
Didactics methods	Lecture Method Content-Focused Methods Problem Solving Methods Creative Thinking
Course requirements	No requirements
Literature (basic and supplementary)	Singh S. et al. (eds.), Transportation System, Springer, 2019 Cascetta E., Transportation Systems Engineering: Theory and Methods, Springer Science+Business, 2001 Cascetta E., Transportation Systems Analysis. Models and Applications, Springer Science+Business Media, 2009 Dhillon B.S. , Human Reliability and Error in Transportation Systems, Springer-Verlag London Limited, 2007
The effects of the education - knowledge - skills	Knowledge: A Student knows:

<p>- social competences</p>	<ul style="list-style-type: none"> • concept of the transport system, its components and indicators describing it. • the classification and methods of analysis of transport systems. • is aware of the development trends of transport systems. <p>Skills: A Student analyzes the functionality and effectiveness of existing transport system solutions. Calculates basic efficiency indicators, parameters and configurations of transport systems.</p> <p>Social competences: A Student is aware of the impact of transport systems on the environment</p>